

**Lathe**
**OPTIturn TU 2304V**

Lathes for home improvement. TU 2304V with electronically adjustable speed

**Article number** ▾

3420325

**Brand** ▾

Optimum

**OPTIMUM®**  
MASCHINEN - GERMANY


**Catalog directory** ▾

Metalworking machines » Lathes  
conventional » OPTIturn TU 2304 / TU  
2304V

**Shipping informations** ▾

Packaging Metrics		Weights		Delivery		Other	
Length	980 mm	Gross	127 kg	Delivery	Carrier	DualUse	✗
Width	560 mm	Net	111 kg	Content	1 pc(s).	SCIP	n/a
Height	560 mm					SVHC	No



## Description ▾

- Precise processing
- Cast iron gray prism bed, aged for at least six months, inductively hardened and precision ground
- Hardened and ground Z-axis guideway
- Guaranteed concentricity of the spindle nose better than 0.009 mm
- Rolled trapezoid spindles
- Leadscrew stored in two sintered bearings
- All guides can be adjusted by wedge strips
- Precisely crafted sled
- Handwheels with adjustable fine scale 0.04 / 0.01 mm
- Quadruple tool holder
- Concentricity - chuck better than 0.05 mm
- Lead screw for thread cutting or automatic longitudinal turning
- Right / left rotation in the control panel switchable
- Tailstock for taper turning  $\pm 5$  mm adjustable
- Tailstock quill and handwheel with adjustable fine scale 0.02 mm
- Fast, easy and tool-free adjustment by means of a clamping lever
- Emergency stop impact switch
- Lathe chuck protection
- thrust bearing
- Change gear set for threading
- Extensive accessories
- 3-jaw lathe chuck in the standard scope of delivery
- Stable value

## TU 2304V

- Speed change easily adjustable via potentiometer
- Digital speed display
- EMC filter class C1

## Delivery content ▾

- Three-jaw lathe chuck Ø 100 mm, centrically exciting
- Fixed centering point MK 2 and MK 3
- bulkhead
- chip pan
- Quadruple tool holder
- Change gear set
- operating tool

## Media informations ▾



Illustration shows OPTIturn TU 2304V with optional machine substructure



### Machine bed

- Prepared for measuring system assembly of the X, Z and Z0 axes



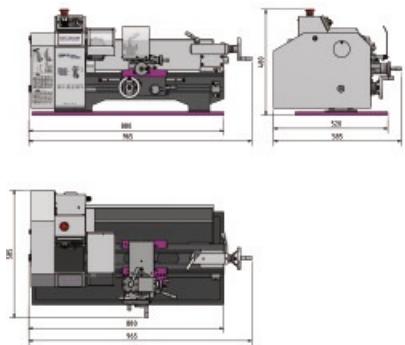
### Lathe chuck and protection

- Lathe chuck guard with position switch
- Three-jaw lathe chuck Ø 125 mm, centric clamping in standard scope of delivery



### TU 2304V with digital speed display

- electronically adjustable 2-step spindle speed 150 - 2.200 min-1
- speed change easily adjustable via potentiometer



## Technical data ▾

Dimensions and weights			
Length (product) approx.	965 mm	Width/depth (product) approx.	585 mm
Height (product) approx.	510 mm	Net weight approx.	114 kg
Work areas			
Max. height	115 mm	Max. width	450 mm
Swing diameter above machine bed	230 mm	Swing diameter above planing slide	128 mm
Bed width	135 mm		
Speed range			
Speed control	electronically adjustable	Number of gears	2
Speed range	150 – 2200 min <sup>-1</sup>		
Electrical Data			
Drive motor output	0,75 kW	Supply voltage	230 V
Mains frequency	50 Hz		
Standards and certifications			
Standard	DIN EN 55011	EMC level	C1
Spindle			
Spindle chuck	cylindrical Ø 72 mm	Spindle bore/rod passage diameter	20 mm
Spindle cone	MK 3	Tool holder max. chuck height	14 mm
Tailstock			
Tailstock chuck	MK 2	Tailstock quill stroke	70 mm
Pitches			
Metric pitch	0,4 – 3,5 mm/rev	Number of metric pitches	14
Imperial pitch	44 – 8 Gg/1"	Number of imperial pitches	14
Travel			
Travel upper slide	75 mm	Travel cross slide	120 mm
Travel carriage saddle	360 mm		

## Accessories ▾



**Three-jaw lathe chuck  
Ø 125 mm centric exciting**

**Article number** ▾  
3442712

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**Four-jaw lathe chuck, concentric clamping  
Ø 125 mm**

**Article number** ▾  
3442812

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**Four-jaw lathe chuck, individually clamping  
Ø 125 mm**

**Article number** ▾  
3442874

**OPTIMUM®**  
MASCHINEN - GERMANY



**Chuck flange  
Ø 125 mm cylindrical**

**Article number** ▾  
3440313

**OPTIMUM®**  
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**Quick change tool kit  
SWH 1 - A**

Repeat accuracy 0.01 mm

**Article number** ▾  
3384301

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**Factory assembly  
SWH 1-A**

**Article number** ▾  
9000401

**OPTIMUM®**  
MASCHINEN - GERMANY



**Spare steel holder  
20x90 type D**

**Article number** ▾  
3384302

**OPTIMUM®**  
MASCHINEN - GERMANY



**Spare steel holder  
20 x 85 type H, for round chisel**

**Article number** ▾

3384321

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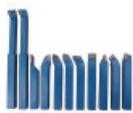


**Turning tool set  
10 mm, 11-part**

**Article number** ▾

3441602

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**Turning tool set  
12 mm, 11-part**

**Article number** ▾

3441603

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**Turning tool set  
HM 12 mm, 5-part "Made in Germany"**

**Article number** ▾

3441212

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**Fixed bezel  
for TU 2304 / TU 2304V**

**Article number** ▾

3440361

**Availability** ▾

In stock

Immediate delivery

**Purchase** ▾

Minimum 1 pc(s).

**Price informations** ▾

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**Rotating bezel  
Ø max. 34 mm for TU 2304**

**Article number** ▾

3440360

**OPTIMUM®**  
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**Revolving centering point  
MT 2**

**Article number** ▾

3440702

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### Face plate

Ø 170 mm

#### Article number ▾

3440295

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MASCHINEN - GERMANY



### Substructure

MST 1

#### Article number ▾

3440409

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### Digital position indicator

DRO 5

Digital 3-axis position indicator for milling machines and lathes with speed display

#### Article number ▾

3383975

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### Magnetic tape

OMB10 for DRO5 1100 mm

#### Article number ▾

3383978

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MASCHINEN - GERMANY



### Factory assembly

MPA 3/4/DRO5

#### Article number ▾

9000420

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### Turning tool set

HM 8 mm, 5-part

#### Article number ▾

3441662

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### Turning tool set

HM 10 mm, 5-part

#### Article number ▾

3441664

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**Turning tool set**  
**HM 12 mm, 5-part**  
**Article number ▾**  
3441666

**OPTIMUM®**  
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**Turning tool set**  
**8 mm, 11 parts**  
**Article number ▾**  
3441601

**OPTIMUM®**  
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**Internal turning set**  
**10 mm**  
**Article number ▾**  
3441640

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**Internal turning set**  
**12 mm**  
**Article number ▾**  
3441641

**OPTIMUM®**  
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**Center drill set**  
**10tlg. 0.75-4.5 mm HSS**  
**Article number ▾**  
3203010

**OPTIMUM®**  
MASCHINEN - GERMANY



## Twist drill HSS with Morse taper MT 2

Article number ▾

3051002

**OPTIMUM®**  
MASCHINEN - GERMANY



## Collet chuck ER 25, Ø 52 mm, cylindrical

Article number ▾

3440305

**OPTIMUM®**  
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## Revolving centering point MK2 - with exchangeable tips

Article number ▾

3440732

**OPTIMUM®**  
MASCHINEN - GERMANY



## Revolving centering point MT 2

Article number ▾

3451002

**OPTIMUM®**  
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## Collet set ER 25, Ø 1-16 mm

Article number ▾

3441109

**OPTIMUM®**  
MASCHINEN - GERMANY



## Universal coolant device 230 V

Article number ▾

3351999

**OPTIMUM®**  
MASCHINEN - GERMANY



## Vibration damper machine foot SE 55

Article number ▾

3352981

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**Leveling plate  
SE 1**

**Article number ↴**  
3381012

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